

## ABSTRACT OF THE INVENTION

A radiation field detection system, for use with a radiating device, includes a radiation detector configured to receive radiation and to provide radiation strength indicia of amounts of radiation received, a positioning mechanism connected to the radiation detector and configured to physically move the radiation detector, and a processor coupled to the positioning mechanism and coupled to the radiation detector to receive the radiation strength indicia, the processor being configured to: actuate the positioning mechanism to move the radiation detector to desired locations within a radiation field produced by the radiating device; analyze the radiation strength indicia from the radiation detector; correlate positions of the radiation detector with corresponding amounts of received radiation; determine a first location of maximum detected radiation; and determine a first relationship between the first location of maximum detected radiation and a second location of maximum radiation.

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